

SEQUENCE LISTING

<110> NAGAI, RYOZO
MANABE, ICHIRO
ISHIHARA, ATSUSHI
TOTTORI, TSUNEAKI

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<130> P29215

<140> 10/565,997.

<141> 2006-01-27

<150> PCT/JP04/11223

<151> 2004-07-29

<150> JP 2003-202863

<151> 2003-07-29

<150> JP 2004-075115

<151> 2004-03-16

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<170> PatentIn Ver. 3.3

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Arg Val Leu Thr Met Ser Ala Arg Leu Gly Pro Leu Pro Gln Pro Pro
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Ala Ala Gln Ala Glu Pro Val Phe Ala Gln Leu Lys Pro Val Leu Gly
20 25 30 35gct gcg aac ccg gcc cgc gac gcg gcg ctc ttc tcc gga gac gat ctg 319
Ala Ala Asn Pro Ala Arg Asp Ala Ala Leu Phe Ser Gly Asp Asp Leu
40 45 50aaa cac gcg cac cac cac ccg cct gcg ccg ccg cca gcc gct ggc ccg 367
Lys His Ala His His His Pro Pro Ala Pro Pro Pro Ala Ala Gly Pro
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Tyr Leu Thr Pro Gln Leu Pro Pro Val Pro Ile Ile Ser Glu His Lys	
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Thr Glu Gly Ile Pro Tyr Ser Ile Asn Met Asn Val Phe Leu Pro Asp	
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Ser Thr Ala Pro Pro Pro Pro Pro Ala Pro Thr Gln Ala Leu Pro Glu	
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Phe Thr Ser Ile Phe Ser Ser His Gln Thr Thr Ala Pro Pro Gln Glu	
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Val Asn Asn Ile Phe Ile Lys Gln Glu Leu Pro Ile Pro Asp Leu His	
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Leu Ser Val Pro Ser Gln Gln Gly His Leu Tyr Gln Leu Leu Asn Thr	
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Pro Asp Leu Asp Met Pro Ser Ser Thr Asn Gln Thr Ala Val Met Asp	
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Thr Leu Asn Val Ser Met Ala Gly Leu Asn Pro His Pro Ser Ala Val	
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Pro Gln Thr Ser Met Lys Gln Phe Gln Gly Met Pro Pro Cys Thr Tyr	
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 310 315 320
 aaa ctg gcg att cac aac cca aat tta cct gcc act ctg cca gtt aat 1183
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 Ser Pro Thr Leu Pro Pro Val Arg Tyr Asn Arg Arg Ser Asn Pro Asp
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 Val Tyr Thr Lys Ser Ser His Leu Lys Ala His Leu Arg Thr His Thr
 375 380 385
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 Gly Glu Lys Pro Tyr Lys Cys Thr Trp Glu Gly Cys Asp Trp Arg Phe
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acgtgtggaa gagcggaaga gttttgcttt tctgctgcgc ctctgaaaac tgcttgcgc 180
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 cgaccaagc cagcgtgggc gaggtgggaa gtgcgccga cccgcgcctg gagctgcgcc 300
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 Met Ala Thr Arg Val Leu Ser Met Ser Ala Arg Leu Gly
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 Pro Val Pro Gln Pro Pro Ala Pro Gln Asp Glu Pro Val Phe Ala Gln
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 Phe Pro Gly Glu Glu Leu Lys His Ala His His Arg Pro Gln Ala Gln
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 Pro Ala Pro Ala Gln Ala Pro Gln Pro Ala Gln Pro Pro Ala Thr Gly
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 Pro Arg Leu Pro Pro Glu Asp Leu Val Gln Thr Arg Cys Glu Met Glu
 80 85 90

aag tat ctg aca cct cag ctt cct cca gtt cct ata att cca gag cat 638
 Lys Tyr Leu Thr Pro Gln Leu Pro Pro Val Pro Ile Ile Pro Glu His
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 Asp Ile Thr His Leu Arg Thr Gly Leu Tyr Lys Ser Gln Arg Pro Cys
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gta aca cac atc aag aca gaa cct gtt gcc att ttc agc cac cag agt 830
 Val Thr His Ile Lys Thr Glu Pro Val Ala Ile Phe Ser His Gln Ser
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gaa acg act gcc cct cct ccg gcc ccg acc cag gcc ctc cct gag ttc 878
 Glu Thr Thr Ala Pro Pro Pro Ala Pro Thr Gln Ala Leu Pro Glu Phe
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Pro Thr Gln Gln Gly His Leu Tyr Gln Leu Leu Asn Thr Pro Asp Leu	
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Val Ser Met Ser Ala Ala Met Ala Gly Leu Asn Thr His Thr Ser Ala	
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 Ala Lys Pro Phe Gln Cys Gly Val Cys Asn Arg Ser Phe Ser Arg Ser
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 Met Pro Thr Arg Val Leu Thr Met Ser Ala Arg Leu Gly Pro Leu Pro
 1 5 10 15
 Gln Pro Pro Ala Ala Gln Ala Glu Pro Val Phe Ala Gln Leu Lys Pro
 20 25 30
 Val Leu Gly Ala Ala Asn Pro Ala Arg Asp Ala Ala Leu Phe Ser Gly
 35 40 45
 Asp Asp Leu Lys His Ala His His His Pro Pro Ala Pro Pro Pro Ala
 50 55 60
 Ala Gly Pro Arg Leu Pro Ser Glu Glu Leu Val Gln Thr Arg Cys Glu
 65 70 75 80
 Met Glu Lys Tyr Leu Thr Pro Gln Leu Pro Pro Val Pro Ile Ile Ser
 85 90 95
 Glu His Lys Lys Tyr Arg Arg Asp Ser Ala Ser Val Val Asp Gln Phe
 100 105 110
 Phe Thr Asp Thr Glu Gly Ile Pro Tyr Ser Ile Asn Met Asn Val Phe
 115 120 125
 Leu Pro Asp Ile Thr His Leu Arg Thr Gly Leu Tyr Lys Ser Gln Arg
 130 135 140
 Pro Cys Val Thr Gln Ile Lys Thr Glu Pro Val Thr Ile Phe Ser His
 145 150 155 160
 Gln Ser Glu Ser Thr Ala Pro Pro Pro Pro Pro Ala Pro Thr Gln Ala
 165 170 175
 Leu Pro Glu Phe Thr Ser Ile Phe Ser Ser His Gln Thr Thr Ala Pro
 180 185 190
 Pro Gln Glu Val Asn Asn Ile Phe Ile Lys Gln Glu Leu Pro Ile Pro
 195 200 205
 Asp Leu His Leu Ser Val Pro Ser Gln Gln Gly His Leu Tyr Gln Leu
 210 215 220
 Leu Asn Thr Pro Asp Leu Asp Met Pro Ser Ser Thr Asn Gln Thr Ala
 225 230 235 240

Val Met Asp Thr Leu Asn Val Ser Met Ala Gly Leu Asn Pro His Pro
245 250 255

Ser Ala Val Pro Gln Thr Ser Met Lys Gln Phe Gln Gly Met Pro Pro
260 265 270

Cys Thr Tyr Thr Met Pro Ser Gln Phe Leu Pro Gln Gln Ala Thr Tyr
275 280 285

Phe Pro Pro Ser Pro Pro Ser Ser Glu Pro Gly Ser Pro Asp Arg Gln
290 295 300

Ala Glu Met Leu Gln Asn Leu Thr Pro Pro Pro Ser Tyr Ala Ala Thr
305 310 315 320

Ile Ala Ser Lys Leu Ala Ile His Asn Pro Asn Leu Pro Ala Thr Leu
325 330 335

Pro Val Asn Ser Pro Thr Leu Pro Pro Val Arg Tyr Asn Arg Arg Ser
340 345 350

Asn Pro Asp Leu Glu Lys Arg Arg Ile His Phe Cys Asp Tyr Asn Gly
355 360 365

Cys Thr Lys Val Tyr Thr Lys Ser Ser His Leu Lys Ala His Leu Arg
370 375 380

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Thr Trp Glu Gly Cys Asp
385 390 395 400

Trp Arg Phe Ala Arg Ser Asp Glu Leu Thr Arg His Tyr Arg Lys His
405 410 415

Thr Gly Ala Lys Pro Phe Gln Cys Met Val Cys Gln Arg Ser Phe Ser
420 425 430

Arg Ser Asp His Leu Ala Leu His Met Lys Arg His Gln Asn
435 440 445

<210> 52

<211> 457

<212> PRT

<213> Homo sapiens

<400> 52

Met Ala Thr Arg Val Leu Ser Met Ser Ala Arg Leu Gly Pro Val Pro
1 5 10 15

Gln Pro Pro Ala Pro Gln Asp Glu Pro Val Phe Ala Gln Leu Lys Pro
20 25 30

Val Leu Gly Ala Ala Asn Pro Ala Arg Asp Ala Ala Leu Phe Pro Gly
35 40 45

Glu Glu Leu Lys His Ala His His Arg Pro Gln Ala Gln Pro Ala Pro
50 55 60

Ala	Gln	Ala	Pro	Gln	Pro	Ala	Gln	Pro	Pro	Ala	Thr	Gly	Pro	Arg	Leu	65	70	75	80
Pro	Pro	Glu	Asp	Leu	Val	Gln	Thr	Arg	Cys	Glu	Met	Glu	Lys	Tyr	Leu	85	90	95	
Thr	Pro	Gln	Leu	Pro	Pro	Val	Pro	Ile	Ile	Pro	Glu	His	Lys	Lys	Tyr	100	105	110	
Arg	Arg	Asp	Ser	Ala	Ser	Val	Val	Asp	Gln	Phe	Phe	Thr	Asp	Thr	Glu	115	120	125	
Gly	Leu	Pro	Tyr	Ser	Ile	Asn	Met	Asn	Val	Phe	Leu	Pro	Asp	Ile	Thr	130	135	140	
His	Leu	Arg	Thr	Gly	Leu	Tyr	Lys	Ser	Gln	Arg	Pro	Cys	Val	Thr	His	145	150	155	160
Ile	Lys	Thr	Glu	Pro	Val	Ala	Ile	Phe	Ser	His	Gln	Ser	Glu	Thr	Thr	165	170	175	
Ala	Pro	Pro	Pro	Ala	Pro	Thr	Gln	Ala	Leu	Pro	Glu	Phe	Thr	Ser	Ile	180	185	190	
Phe	Ser	Ser	His	Gln	Thr	Ala	Ala	Pro	Glu	Val	Asn	Asn	Ile	Phe	Ile	195	200	205	
Lys	Gln	Glu	Leu	Pro	Thr	Pro	Asp	Leu	His	Leu	Ser	Val	Pro	Thr	Gln	210	215	220	
Gln	Gly	His	Leu	Tyr	Gln	Leu	Leu	Asn	Thr	Pro	Asp	Leu	Asp	Met	Pro	225	230	235	240
Ser	Ser	Thr	Asn	Gln	Thr	Ala	Ala	Met	Asp	Thr	Leu	Asn	Val	Ser	Met	245	250	255	
Ser	Ala	Ala	Met	Ala	Gly	Leu	Asn	Thr	His	Thr	Ser	Ala	Val	Pro	Gln	260	265	270	
Thr	Ala	Val	Lys	Gln	Phe	Gln	Gly	Met	Pro	Pro	Cys	Thr	Tyr	Thr	Met	275	280	285	
Pro	Ser	Gln	Phe	Leu	Pro	Gln	Gln	Ala	Thr	Tyr	Phe	Pro	Pro	Ser	Pro	290	295	300	
Pro	Ser	Ser	Glu	Pro	Gly	Ser	Pro	Asp	Arg	Gln	Ala	Glu	Met	Leu	Gln	305	310	315	320
Asn	Leu	Thr	Pro	Pro	Pro	Ser	Tyr	Ala	Ala	Thr	Ile	Ala	Ser	Lys	Leu	325	330	335	
Ala	Ile	His	Asn	Pro	Asn	Leu	Pro	Thr	Thr	Leu	Pro	Val	Asn	Ser	Gln	340	345	350	
Asn	Ile	Gln	Pro	Val	Arg	Tyr	Asn	Arg	Arg	Ser	Asn	Pro	Asp	Leu	Glu	355	360	365	

Lys Arg Arg Ile His Tyr Cys Asp Tyr Pro Gly Cys Thr Lys Val Tyr
 370 375 380

Thr Lys Ser Ser His Leu Lys Ala His Leu Arg Thr His Thr Gly Glu
 385 390 395 400

Lys Pro Tyr Lys Cys Thr Trp Glu Gly Cys Asp Trp Arg Phe Ala Arg
 405 410 415

Ser Asp Glu Leu Thr Arg His Tyr Arg Lys His Thr Gly Ala Lys Pro
 420 425 430

Phe Gln Cys Gly Val Cys Asn Arg Ser Phe Ser Arg Ser Asp His Leu
 435 440 445

Ala Leu His Met Lys Arg His Gln Asn
 450 455